



MODIFICATION INSTRUCTIONS

for the

KODAK MINILOADER 2 PLUS, MODELS STAND-ALONE, M35-M & 480RA

Service Codes 3236, 3239 & 3240

MODIFICATION No. M04

Type 1 REQUIRED

PURPOSE:

To reduce the speed of the TILT MOTOR by fitting a different GEARBOX. The new GEARBOX has a ratio of 80:1 compared to the 40:1 ratio of the old GEARBOX. At present the tilt speed control POTENTIOMETER setting is critical. If the speed is set too low, the TILT MOTOR can stall and give error code *23*. If the speed is set too high the TILT MOTOR can over-run and cause the FILM to be caught on the edge of the MAGAZINE or on the multiple film DETECTOR. On some units, it was impossible to obtain a satisfactory setting.

IMPORTANT: Only qualified service personnel should install this modification!

SERIAL NUMBERS:	Model Stand-Alone	(3236)	3001 - 3004
	Model M35-M	(3239)	2603 - 2621
	Model 480RA	(3240)	4001 - 4006

INSTALLATION TIME: Approximately 1 hour.

SPECIAL TOOLS: None

PARTS AVAILABILITY: November 1992.

PARTS REQUIREMENT: See Parts list.

PARTS LIST

PART NO.	DESCRIPTION	QUANTITY
30091104	MODIFICATION KIT	1
THE KIT CONTAINS:		
30025879	TILT MOTOR ASSEMBLY	1
NO PART NUMBER	RETURN ADDRESS LABEL	1
MA3239-M04	MODIFICATION INSTRUCTIONS	1

NOTE:- THE TILT MOTOR ASSEMBLY IS SUPPLIED COMPLETE WITH NEW MICROSWITCHES. THE MICROSWITCHES INCLUDE CRIMP TAGS IN CASE YOUR MACHINE HAS SOLDERED CONNECTIONS. THE ORIGINAL TILT MOTOR ASSEMBLY **MUST** BE RETURNED TO STUTTGART, **OTHERWISE YOUR COUNTRY WILL BE CHARGED DM 500 FOR THE KIT.**

CAUTION



This equipment includes parts and assemblies sensitive to damage from electrostatic discharge. Use caution to prevent damage during all service procedures.

PLEASE NOTE

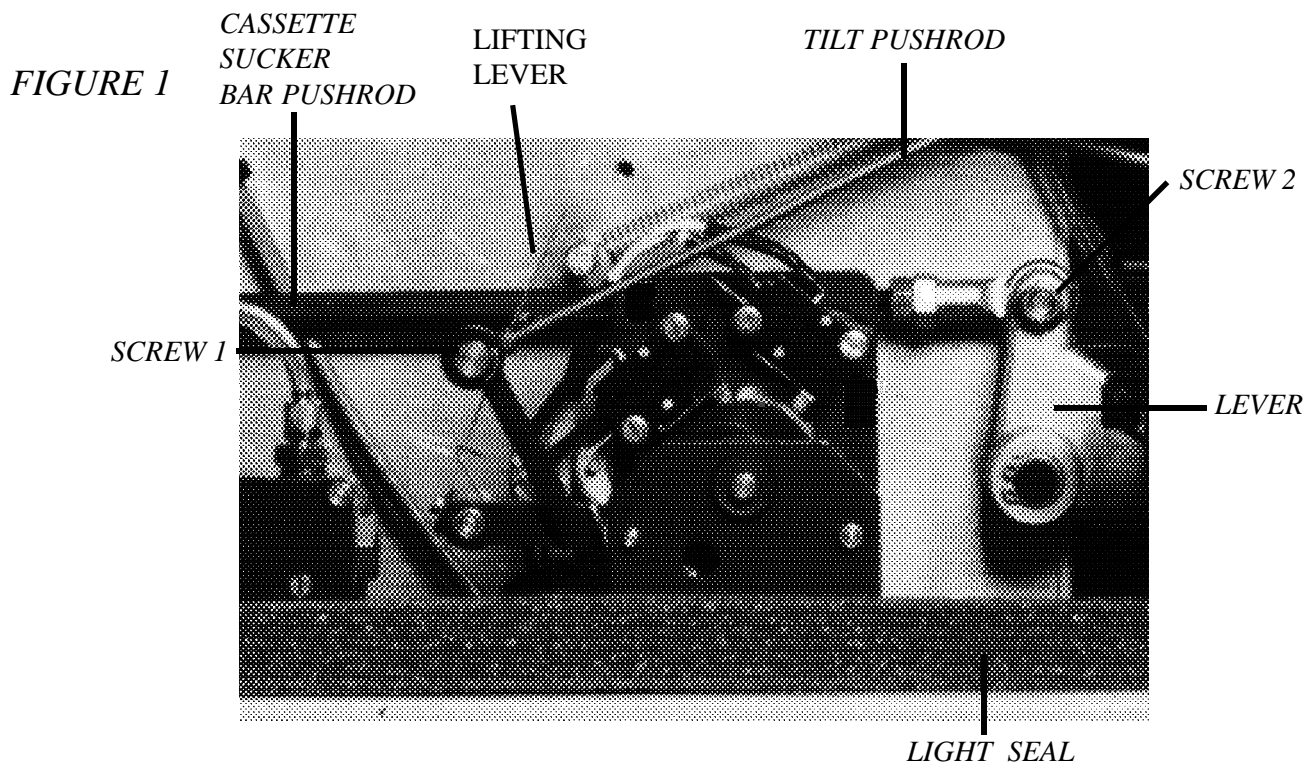
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MODIFICATION INSTRUCTIONS

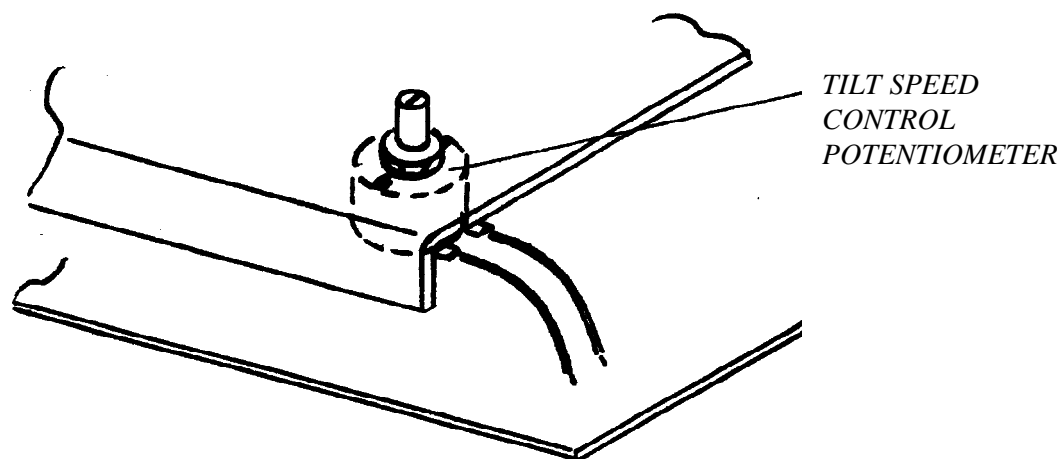
1. Switch off the MINILOADER, and remove the TOP COVER and the left (looking from the front) SIDE PANEL.
2. Disconnect the TILT PUSH ROD by removing the M4 SCREW (SCREW 1 in FIGURE 1) on the TILT LINKAGE.
3. Disconnect the CASSETTE SUCKER BAR PUSH ROD by removing the SCREW (SCREW 2 in FIGURE 1) from the LEVER. CAUTION - support the SUCKER BAR (do not touch the SUCKERS) as you remove the SCREW, and gently lower the SUCKER BAR to the CASSETTE CONVEYOR BELT as it becomes loose. Do not attempt to disconnect the CASSETTE SUCKER BAR PUSH ROD by unscrewing the PUSH ROD, as you will destroy the adjustment.




4. Make a note of where the four WIRES are connected to the MICROSWITCHES and disconnect them. If the wires are soldered, cut them off close to the connectors.
5. Carefully peel back the LIGHT SEAL to gain access to the SCREWS that secure the TILT MOTOR ASSEMBLY and remove them.
6. By rotating the complete assembly by 90 degrees it is now possible to withdraw the TILT MOTOR ASSEMBLY from the MINILOADER.
7. Remove the LIFTING LEVER (see FIGURE 1) from the old TILT MOTOR ASSEMBLY and fit it to the new assembly.

8. Fit the new TILT MOTOR ASSEMBLY by reversing the removal procedure. If the MICROSWITCH WIRES were originally soldered, crimp the new TAGS onto the wires.
9. Load some TEST FILM into the SUPPLY MAGAZINES and run some cycles to check the operation of the TILT ASSEMBLY. If necessary adjust the MICROSWITCHES. The TILT on MICROSWITCH MS4 should stop the TILT MOTOR at the maximum TILT angle, the TILT off MICROSWITCH MS3 should stop the TILT MOTOR with the TILT completely off. Ensure that the MICROSWITCHES are not bottomed by the cam on the TILT MOTOR
It is useful to make a mark on the nylon CAM that operates the MICROSWITCHES to check that the MOTOR stops in the same place every cycle.
10. If necessary adjust the TILT SPEED CONTROL POTENTIOMETER see FIGURE 2. The setting on the POTENTIOMETER should be virtually fully clockwise, giving nearly the highest speed. If the TILT MOTOR still over-runs, reduce the speed of the MOTOR by turning the POTENTIOMETER counter-clockwise.
11. Circle M04 on the MODIFICATION LABEL, and refit all PANELS.
12. If possible process some FILMS and check for artifacts.
13. Fill out the FORM opposite. Carefully repack the old TILT MOTOR ASSEMBLY in the box the new assembly was packed in, include the FORM, stick on the pre-addressed LABEL and mail the box to Stuttgart. If you do not return the TILT MOTOR ASSEMBLY, with the FORM correctly filled in, your country will be charged DM 500 for the modification kit.

FIGURE 3





1	2	3	4	5	6	7	8	9	10	11
12	13	14	15	16	17	18	19	20	21	
22	23	24	25	26	27	28	29	30	31	32
33	34	35	36	37	38	39	40	41	42	

SERIAL NUMBER		K NUMBER	
SERVICE CODE		COUNTRY	
CUSTOMER NAME			
ESR/FE NAME			



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